CLAIMS

What is claimed is:

1   1.   A method of testing a Web Service as a component comprising the steps
2   of:
3   identifying, on a remote system, a Web Service to be tested;
4   obtaining information relating to the Web Service to be tested;
5   generating a program to exercise the Web Service to be tested;
6   executing the program to exercise the Web Service to be tested; and
7   obtaining results from the Web Service to be tested.

1   2.   The method of claim 1 wherein further comprising the step of verifying
2   that said results are correct.

1   3.   The method of claim 1 wherein said step of identifying includes locating
2   a Web Service descriptor language (WSDL) file for the Web Service.

1   4.   The method of claim 3 wherein said step of identifying further comprises
2   locating a DISCO file, said DISCO file including a list of WSDL files.

1   5.   The method of claim 1 wherein said step of obtaining information relating
2   to the Web Service to be tested includes obtaining information relating to the Web
3   Service interface.

1 6.   The method of claim 1 wherein said step of obtaining information relating
2 to said Web Service to be tested further comprises obtaining information related to
3 the methods of the Web Service.

1 7.   The method of claim 1 wherein said step of obtaining information relating
2 to said Web Service to be tested further comprises obtaining information relating
3 to parameters to be passed to said Web Service.

1 8.   The method of claim 1 wherein said step of executing the program to
2 exercise the Web Service to be tested includes sending and receiving messages
3 with said Web Service.

1 9.   The method of claim 1 wherein said remote system resides on a network.

1 10.   The method of claim 9 wherein said network comprises the Internet.

1 11.   The method of claim 8 wherein said messages are in a SOAP protocol.

1 12.   The method of claim 8 wherein said messages are transported across said
2 network using an HTTP Internet protocol.

1 13.   The method of claim 8 wherein said messages are in an XML format.

1 14.   A computer program product for testing a Web Service as a component,
2 the computer program product comprising a computer usable medium having
3 computer readable code thereon, including program code comprising:

4   instructions for causing a processor to identify, on a remote system,

5   a Web Service to be tested;

6   instructions for causing the processor to obtain information relating

7   to the Web Service to be tested;

8   instructions for causing the processor to generate a program to

9   exercise the Web Service to be tested;

10   instructions for causing the processor to execute the program to

11   exercise the Web Service to be tested; and

12   instructions for causing the processor to obtain results from the Web

13   Service to be tested.

1   15.   The computer program product of claim 13 further comprising instructions

2   for causing the processor to verify said results.

1   16.   The computer program product of claim 14 wherein said instructions for

2   causing a processor to identify includes instructions for causing a processor to

3   locate a Web Service descriptor language (WSDL) file for the Web Service.

1   17.   The computer program product of claim 14 wherein said

2   instructions for causing a processor to identify further comprises instructions for

3   causing a processor to locate a DISCO file, said DISCO file including a list of

4   WSDL files.

1   18.   The computer program product of claim 14 wherein said

2   instructions for causing a processor to obtain information relating to the Web

3   Service to be tested includes instructions for causing a processor to obtain

4   information relating to the Web Service interface.

1   19.   The computer program product of claim 14 wherein said instructions for

2   causing a processor to obtain information relating to said Web Service to be tested

3   further comprises instructions for causing a processor to obtain information

4   related to the methods of the Web Service.

1   20.   The computer program product of claim 14 wherein said instructions for

2   causing a processor to obtain information relating to said Web Service to be tested

3   further comprises instructions for causing a processor to obtain information

4   relating to parameters to be passed to said Web Service.

1   21.   The computer program product of claim 14 wherein said instructions for

2   causing a processor to execute the program to exercise the Web Service to be

3   tested includes instructions for causing a processor to send and receive messages

4   across a network with said Web Service.

1   22.   The computer program product of claim 21 wherein said instructions for

2   causing a processor to send and receive messages comprise instructions for

3   causing a processor to send and receive messages using a SOAP protocol.

1   23.   The computer program product of claim 21 wherein said instructions for

2   causing a processor to send and receive messages with said Web Service

3   comprises instructions for causing a processor to transmit said messages in an

4   HTTP Internet protocol.

1   24.   The computer program product of claim 2 wherein said instructions for

2   causing a processor to send and receive messages with said Web Service comprise

3   instructions for causing a processor to transmit messages in an XML format.